Montgomery County Maryland
Department of Permitting Services

Division of
Land Development
Services

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Water Quality Storm Drain Unit Plan Review Checklist

Sediment Control Permit No. _____

SUPPORTING INFORMATION

____ ____ ____ Maintenance Easement and Covenant

____ ____ ____ Itemized Stormwater Management Construction Estimate.

GENERAL PLAN REQUIREMENTS

____ ____ ____ Delineation of outfall or immediate downstream storm drain system.

____ ____ ____ Facility and manhole location to allow easy access and maintenance.

____ ____ ____ Maintenance access from public right-of-way, minimum width 12 feet, maximum grade 15% if mechanically stabilized, 10% maximum without mechanical stabilization.

____ ____ ____ Maintenance easement (must include the unit; any related appurtenances; access points; flow splitting structures; inlet trash racks).

____ ____ ____ Loadings for structural design specified on plan (H-20 for vehicular areas).

____ ____ ____ Details shown on plan for a specific model.

____ ____ ____ Model dimensions – Give all variables.

____ ____ ____ If feasible, locate the unit on a lateral or local storm drain line, rather than on a trunk line.

____ ____ ____ Gasket detail on plan.

____ ____ ____ Give top slab and MH rim elevations.

____ ____ ____ Nine (9) inch maximum height for manhole frame.
Secure manhole rim to the top slab (Use WSSC detail S/4.3)

____ ____ ____ All inlets draining to the unit must have surface debris trapping devices with openings < 6-inches in diameter unless drainage passes through a flow splitter trash rack before entering the unit. Trash racks on public storm drains are not permitted. Debris trapping devices are to be included in the maintenance easement and covenant documents.

____ ____ ____ Do not use as a sediment trapping device.

FORMS AND NOTES

____ ____ ____ Standard Notes

____ ____ ____ Provide installation/construction instructions

____ ____ ____ Provide proceedure to seal lift holes

____ ____ ____ Maintenance notes

Stormceptor Review Requirements

____ ____ ____ Bypass area above the weir adequate to pass Q_{10}.

____ ____ ____ Include 24-inch down pipe installation procedure for STC-2400, STC-3600, STC-4800, STC-6000, STC-7200.

____ ____ ____ Two manholes are required if there is less than 3-feet of clearance between the drop inlet pipe and the bottom of the top slab.

____ ____ ____ If < 4-feet between pipe invert and proposed grade, submit verification from the manufacturer that construction of the unit is possible.

____ ____ ____ Show pipe and insert dimensions – pipe type, inverts, exactly one inch difference between the inlet invert and the outlet invert. On a two inlet pipe design, there should be exactly 3-inches difference.

____ ____ ____ No inlet/outlet pipe >36 inches without customization of the insert design.

____ ____ ____ One inlet and one outlet pipe preferred. Two inlet pipes are the maximum allowed.

____ ____ ____ Provide procedure for drop pipe installation.

____ ____ ____ Order form with completed sizing information for each unit on plans. Manhole rim elevation specified on the order form.

____ ____ ____ Note that dimensional shop drawings are to be approved by the design engineer and accepted by DPS prior to fabrication. The dimensional shop drawings must be reviewed and signed off by the engineer prior to submittal to DPS.

STORMCEPTOR SIZING

____ ____ ____ For primary water quality, size for a minimum 80% TSS removal rate using the latest Stormceptor sizing guidelines.

____ ____ ____ Total drainage area to the unit shown clearly in the computations.

____ ____ ____ Use “Bethesda” or “Frederick” rainfall data, whichever is closest.

____ ____ ____ Use “Fine” particle size.

BaySaver Review Requirements

____ ____ ____ Sizing computations. For primary water quality, size so that the flow rate of the required water quality volume is at or below the “Low Flow Capacity”. Other sizing may be used if the unit serves as pretreatment only. Do not size per impervious drainage area.

____ ____ ____ Show detail of downstream storm drain connection.

____ ____ ____ Shop drawing is not required for BaySaver.

____ ____ ____ Detail dimensions are accurately reflected in the dimension table on the plan.